OWNER'S MANUAL

Interface Kit for iPod

Made for iPod

December 2007

This device complies with Part 15 of the FCC Rules.
Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and
(2) This device must accept any interference received, including interference that may cause undesired operation.

Information to User
Alternation or modifications carried out without appropriate authorization may invalidate the user's right to operate the equipment.

⚠ WARNING

- Handling the cord on this product or cords associated with accessories sold with the product will expose you to lead, a chemical known to the State of California and other governmental entities to cause cancer and birth defects or other reproductive harm. ***Wash hands after handling.***
- After using, be careful when removing or attaching the radio, as the side(s) may be quite hot.

Important information about this manual

For safety reasons, this manual indicates items requiring particular attention with the following marks.

NOTICE

This is a warning against anything which may cause damage to the vehicle or its equipment if the warning is ignored. You are informed about what you must or must not do in order to avoid or reduce the risk of damage to your vehicle and its equipment.

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INTRODUCTION

The Interface Kit allows you to play music from an iPod® through your vehicle's radio system. Reading this Owner's Manual ensures that you will get the most out of your audio experience. This manual explains how to integrate the radio with your iPod using the Interface Kit. Button locations and labeling will differ depending upon your vehicle's make and model.

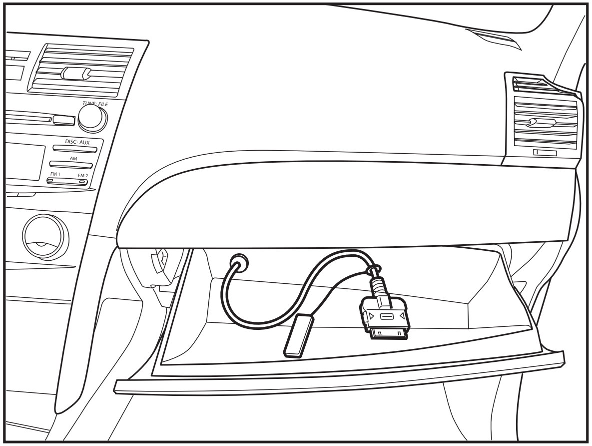
For new iPods, follow the iPod instructions for loading songs into it before connecting to the radio. The Interface Kit utilizes the Satellite Radio (SAT) controls of your radio's. Therefore, Satellite Radio controls are used to search for and play music from the iPod.

NOTE: With the Interface Kit installed, Satellite Radio use is not possible.

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What's Included

The Interface Kit includes cable located in your vehicle's glove box.

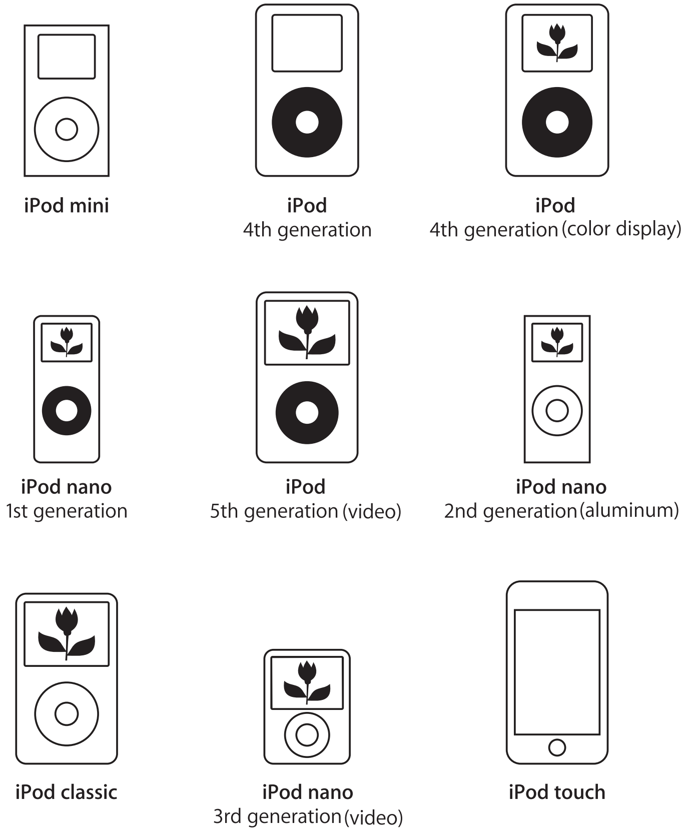


iPod COMPATIBILITY

Due to the frequency of iPod software updates for the iPod, only the latest versions are fully supported. Check the Apple® website for current software version numbers (http://www.apple.com/). Software older than what is listed is not supported. iPods with older software versions than what is listed, is not supported by the Interface Kit. To see if your iPod is compatible, see the following list.

Made for:

- iPod mini
- iPod 4th generation
- iPod 4th generation (color display)
- iPod nano 1st generation
- iPod 5th generation (video)
- iPod nano 2nd generation (aluminum)
- iPod classic
- iPod nano 3rd generation (video)
- iPod touch



BASIC FUNCTIONS

Resume Play

The “Resume Play” feature allows the iPod to play the current musical selection (Play queue) when connecting to the Interface Kit. If the play queue was empty, the Interface Kit plays the entire iPod.

Music Play

Select songs in the play queue and continue to play repeatedly until another selection is made.

Music Search

The user can make media selections from the iPod from a preselected list of categories (Playlist, Artist, Album, Genre, Podcast and Audiobook). The radio SAT controls coincide with similar functions on the iPod.

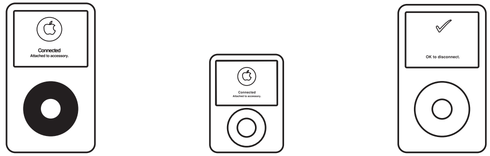
Text Display

The interface utilizes the same text fields provided for the satellite radio. For each song, the radio displays a track number, artist name and song title information. This corresponds to the SAT channel number, artist name and song title respectively.

Connecting/Disconnecting iPod

When the iPod is properly connected to the interface:

- **iPod Synchronized:** On establishing connection with the iPod, an “accessory attached” symbol will appear as illustrated below.



All of these displays are subject to change. These are only examples.

- “Hello iPod” is shown in the radio’s display.
- **Radio controlled:** The iPod can only be operated using your vehicle’s SAT system controls. Once connected to the interface, the iPod’s controls (click wheel, etc.) no longer function.
- **Charging iPod:** The vehicle charges the iPod battery when the ignition switch is in the ON or ACC position.
- iPod battery is discharged: If the iPod is in a fully discharged state, it may not be playable for a short period. “iPod Charge” is displayed on the radio if the iPod is in a low battery state.

When the iPod is disconnected from the interface:

- “No iPod” is shown in the radio’s display.
- The radio remains in the SAT mode.

NOTE: It is highly recommended to turn the vehicle’s ignition switch (or radio’s power) OFF before disconnecting the iPod from the radio.

SYSTEM OPERATION

Music Plays

Under the following conditions, the iPod begins playback automatically.

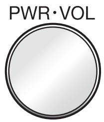
- The ignition switch is in ACC or IGN position. The radio is in SAT mode.
- Reconnect the iPod (whether in Play, Pause, Stop or Sleep condition) with ACC ON and in SAT mode.

The interface begins playback with the last song played on the iPod. The radio mode does not change, even if the iPod contains no media. However, the radio displays the message: "No Songs".

Audio Stops

Under the following conditions, the iPod playback stops automatically.

- The radio was changed to non-SAT mode (AM, FM, CD etc).
- The iPod was disconnected from the interface cable during playback.
- The radio system is turned OFF or ACC or IGN is turned OFF.
- At the end of the last Chapter of an Audiobook. May need to make a new selection to begin playback.
- Push the PWR·VOL knob to turn the radio OFF.



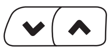
iPod CONTROL - BASIC

Song UP/DOWN



- **TUNE·FILE KNOB**

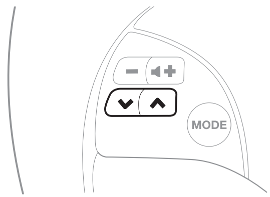
  Use the TUNE·FILE knob to skip to the next or previous song.
  Rotate the knob 1 click to the right or left to skip to the next song or previous one respectively. Rotate the knob “N” steps to the right or left to skip skips to next “Nth” song or previous “Nth” song (including the current song).



- **REMOTE CONTROL (Steering Wheel Switches)**

  Use the Track UP/DOWN button to skip to the next or previous song.

Press and release ∧ button to skip to the next song.
Press and release ∨ button to skip to the previous song.



Fast-Forward/Rewind



Move quickly through a song by pressing the ∧ or ∨ button during playback.
* The Fast-Forward/Rewind operation has the same behavior as the iPod ‘click wheel’.
Press ∧ to fast-forward through a song.
Press ∧ again to stop.
Press ∨ to rewind a song.
Press ∨ again to stop.

Random Play [Shuffle ON/OFF]



Shuffle songs within the “Now Playing” list of the iPod: Play songs on the iPod in random order within the current “Now Playing” list using the SCAN button. After playing the last song in the Playlist randomly, Shuffle begins playing back in a new random order.
Press and hold the SCAN button (more than 1 second) to turn shuffle ON. Press and hold the SCAN button (more than 1 second) again to turn shuffle OFF.

Shuffle All



Press the Preset 5 to shuffle all the songs on the iPod. Press and hold the SCAN button to cancel.

SCAN



Press and release the SCAN button to preview 10 seconds of each song on the iPod. When a desired song is heard, press and release the SCAN button (before 10 seconds has been played) to play the entire song. The SCAN function is canceled.

In addition, SCAN is also usable within the current “Now Playing” list. If it is selected as described above, while in a “Now Playing” list (Playlist, Album, etc.), then only the songs in that list are scanned.

MUSIC SEARCH

The radio recognizes the following categories in the iPod: Playlist, Artist, Album, Genre, Podcast and Audiobook.
The user can select one of the following two methods to choose songs from these categories.

Method 1 (Category Search)

The user can do a music search in any of the following categories: Playlist, Artist, Album, Genre, Podcast and Audiobook.
The buttons TYPE•FOLDER UP/DOWN, Preset 6 and the TUNE•FILE knob are used together to implement the search function through the following steps:

a. Category Browsing



The TYPE•FOLDER UP/DOWN button is used for category browsing.
Press the TYPE•FOLDER button and the list of categories, Playlist ↔ Artist ↔ Album ↔ Genre ↔ Podcast ↔ Audiobook is shown in the radio’s display. Pressing ︿, shifts the selection list to the right and ﹀ shifts the selection list to the left.

b. Category Selection



Preset 6 [Enter] button is used to make the selection after category browsing. Press the Preset 6 button to select the name of the last item displayed in the selected category (Playlist / Artist / Album / Genre/ Podcast / Audiobook).

NOTE: If this is the first search after connecting the iPod, the first item in the selected category is shown.

c. Browsing the Items in the Selected Category



If the user chooses to play all the songs (beginning with the first one) in the last displayed category (last displayed Playlist / Artist / Album / Genre / Podcast / Audiobook), this step can be skipped. Go to the next step.

The TUNE•FILE knob is used for browsing the items in the selected category. Rotate the TUNE•FILE knob right/left to display the name of next/previous item in the selected category.

d. Select Songs



Preset 6 is used to make a selection when the desired item in the selected category is shown in the radio's display. Press the Preset 6 button to play songs from the displayed item in the selected category. This item becomes the current "Now Playing" list of the iPod, the song track is displayed on the radio and the search is completed.

Method 2 (Quick Search)

The user can do a music search in the categories: Playlist, Artist, Album and Podcast.

Presets 1-4 are assigned to each of these 4 categories. Category browsing is not needed and selection is made directly from the Presets. Presets 1-4, Preset 6 and TUNE are used together as follows.

a. Preset Assignment

Button	Display	Browse
Preset 1	Playlist	Playlist names
Preset 2	Artist	Artist names
Preset 3	Album	Album names
Preset 4	Podcast	Podcast episodes

b. Category Selection

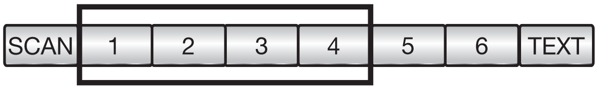
The last item displayed in the category will be displayed on the radio using Presets 1-4.

Press Preset 1 to display the name of the last displayed Playlist on the radio.

Press Preset 2 to display the name of the last displayed Artist.

Press Preset 3 to display the name of the last displayed Album.

Press Preset 4 to display the last displayed Podcast episode.



NOTE: If this is the first search after the iPod is connected, the first item in the list is shown.

c. Browsing the Items in the Selected Category

If the user chooses to play all the songs in the last displayed title of the chosen category (last displayed Playlist / Artist / Album / Genre / Podcast / Audiobook), go to the next step.

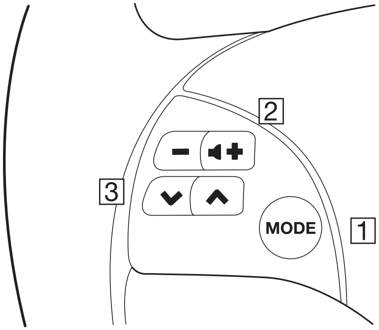
The TUNE·FILE knob is used for browsing the items in the selected category. Turn the TUNE·FILE knob right/left to display the name of the next/previous item in the selected category.

d. Select Songs

Preset 6 is used to make a selection when the desired item in the selected category is shown in the radio's display. Press the Preset 6 button to play songs from the displayed item in the selected category. This item becomes the "Now Playing" list of the iPod. The song track will be displayed on the radio and the search is completed.

If Preset 6 is not pressed for over 15 seconds after the item in the chosen category is displayed on the radio, the Search operation will time-out and the radio returns to the playback mode. The radio continues playing the previous "Now Playing" list, with its song information displayed.

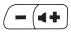
REMOTE CONTROL
(Steering Wheel Switches)



The radio system can be operated using the remote control located on the steering wheel.

1 

Power ON/Change mode: Press
Power OFF: Press and hold

2  Volume

3  Playback mode: Track UP/DOWN
Search mode: Sub Category select
(selected by Preset 6)

DISPLAY AND MESSAGES

Song Number

- Song number is assigned to SAT Channel number.
- Song number can be viewed by pressing the TEXT button if it is not currently being shown in the radio's display.
- When using the rotary Tune knob to skip songs, the song number change is shown in the radio's display. The song numbers are valid up to 100. Once the song number reaches 100, the next press of the UP/DOWN button rolls the song number back to 1 although the song itself is number 101.

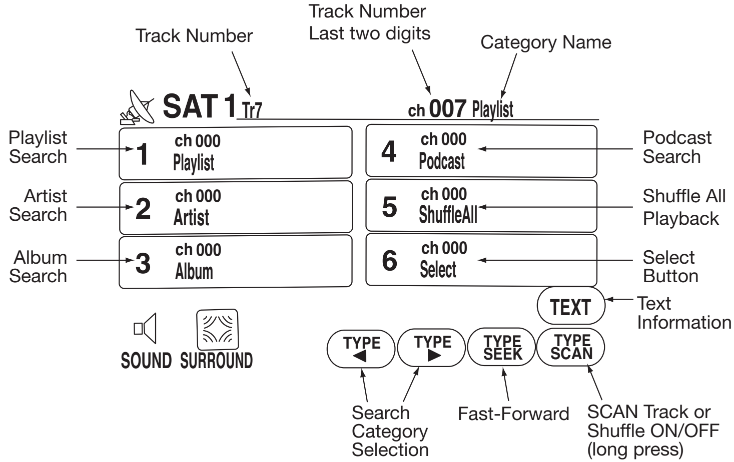
Track Name

- Track name is assigned to SAT Song title.

Artist Name

- Artist name is assigned to SAT Artist name.

TEXT button is used to display the above messages. Press the TEXT button to cycle the Track Number, Track Name and Artist Name in the radio's display.
The maximum displayable characters allowed by the radio will be displayed.
The radio may display incomplete names if they include more characters than the display is capable of showing.



The following table illustrates the SAT Radio information to the corresponding iPod information.

SAT Field	iPod Data Displayed
Channel Number	For track number
Category Number	Field not used
Category Name	For displaying search category
Channel Name	Also for track number
Song Name	For song title
Artist Name	For artist name

iPod Status Messages

No iPod ______________ iPod not connected to interface cable.

Hello iPod ____________ Message shown in the radio's display during iPod connection to the interface cable.
This message is displayed when the radio is in satellite mode.

Check iPod ___________ Radio communication error.

No Songs ____________ iPod contains no songs.

Shuffle ON/OFF _______ When Shuffle mode is changed to ON or OFF.

End Audio ____________ At the end of the last chapter of the current Audiobook.

iPod Charge __________ When the iPod is fully discharged, playback may be inhibited temporarily.